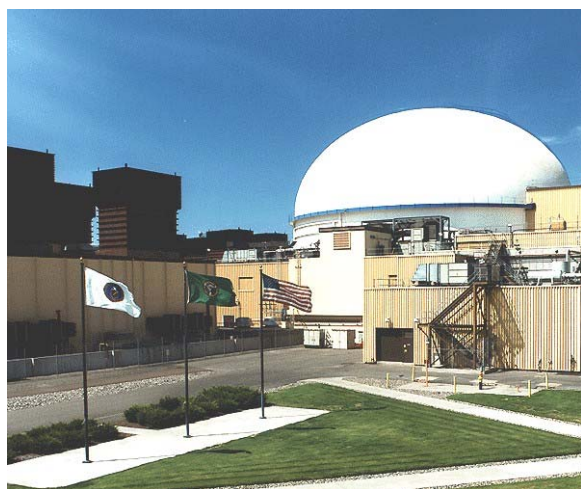


# **Fast Flux Test Facility Closure Project And Advanced Reactor Transition Program**

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*FFTF Closure Work scope –  
X-12 Transformer Removal*



*FFTF*



*NE Legacies:  
337 High Bay*



*Plutonium Recycle Test Reactor  
- - 309 Building*

## INTRODUCTION

The mission of the Fast Flux Test Facility (FFTF) Closure Project, PBS RL-CP04, is to deactivate and decommission the FFTF facility. The FFTF Closure Project was directed on November 8, 2002 to stop decommissioning activities and maintain the FFTF in the condition existing at that time. This action was taken by RL as the result of a legal suit brought by Benton County in Federal Court. The staff has suspended actions for secondary sodium drain and other equipment removal activities. In the near term, efforts are directed towards restoring the fuel handling and washing systems that have been under long-term maintenance and modification.

The Advanced Reactor Transition (ART) Program, PBS RL-RC03, consists of the Nuclear Energy (NE) Legacies and the 309 Building/Plutonium Recycle Test Reactor (PRTR) activities. A change request has been provided to RL to retain the 309 Building/PRTR scope until April 30, 2003, at which time it will transfer into a pending contract for the River Corridor work scope.

NOTE: Unless otherwise noted, all information contained herein is as of the end of February 2003.

## NOTABLE ACCOMPLISHMENTS

### FFTF Closure Project/CP04

**Sodium Removal System (SRS):** February activities focused on finalizing the Acceptance Test Report, resolving Test Exceptions, validating procedures and supporting the Test Results Review Team. Tests were conducted to verify tank pressure conditions necessary to prevent water from inadvertently siphoning from the Ion Exchange system during routine water transfers. Results from these tests were incorporated into procedures and a new warning added to the software to alert the Operator when these unfavorable pressure conditions are approached.

**Closed Loop Ex-Vessel Machine (CLEM):** The CLEM Readiness Assessment Findings were presented to FFTF management and corrective actions were identified. Revised design has been developed that will eliminate slippage of the resolver, which is used for position measurement of the load limiter.

**Solid Waste Casks (SWC):** Modification of the SWC control console and subsequent testing were completed. A series of problems, both related to design and installation, were encountered and corrected. The System Requirements Specification was released. The Calibration, Grooming and Alignment procedure was drafted and is currently out for review. Work continues on preparation of the Software Design Description. The logic drawings have been prepared and are currently out for review.

**Removal of X-12 Transformer:** The X-12 transformer that contained polychlorinated biphenyl (PCB) oil was successfully removed and delivered to an off-site disposal area.

### ART Program/RC03

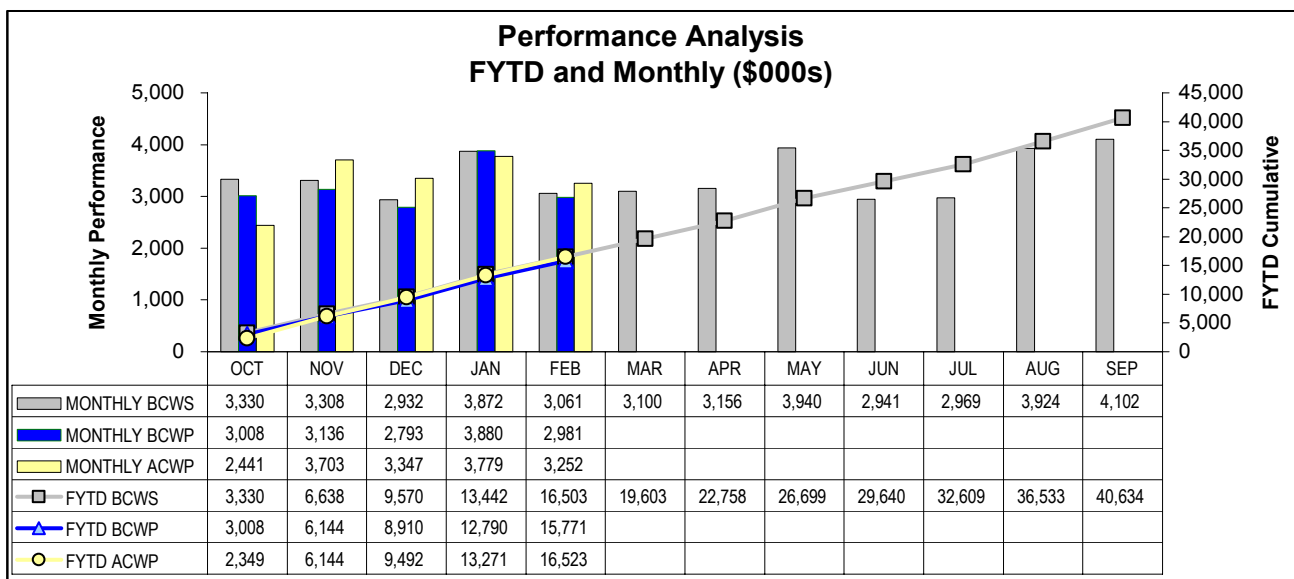
**NE Legacies Deactivation:** Vendor bids for cleaning sodium residues from the 3718-M and Composite Reactor Component Test Activity (CRCTA) tanks were received and are currently being evaluated. Contract award is planned for mid-April. Work continues on preparing the tanks to accept the vendor's equipment.

## FY03 SCHEDULE/COST PERFORMANCE (\$000)

**Schedule Performance:** The FYTD schedule variances (-\$732K for FFTF and -\$0K for ART) are within established thresholds (+/- 10% and \$1M); therefore no explanation is required.

**Cost Performance:** The FYTD cost variances (-\$593K for FFTF and -\$159K for ART) are within established thresholds (+/- 10% and \$1M); therefore no explanation is required.

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
RL-RC03 <b>Advanced Reactor Transition</b>	364	364	523	0	0%	-159	-44%	2,205
RL-CP04 <b>FFTF Project</b>	16,139	15,407	16,000	-732	-5%	-593	-4%	38,429
<b>Total ART and FFTF</b>	<b>16,503</b>	<b>15,771</b>	<b>16,523</b>	<b>-732</b>	<b>-5%</b>	<b>-752</b>	<b>-5%</b>	<b>40,634</b>



## MILESTONE ACHIEVEMENT

Tentative Tri-Party Agreement milestones for FFTF deactivation have been negotiated between RL, Washington State Department of Ecology and the U.S. Environmental Protection Agency. Subject to appropriate public comment and revision, finalization of milestones is anticipated after the litigation is resolved.

**FY 2003 FH FUNDS VS FORECAST (\$000)**

	Expected Funds	Spend Forecast	Variance
<b>RL-CP04</b> Fast Flux Test Facility	\$ 38,448	\$ 38,448	\$ 0
<b>RL-RC03</b> Advanced Reactor Transition	\$ 2,214	\$ 2,175	\$ 39
<b>Total</b>	<b>\$ 40,662</b>	<b>\$ 40,623</b>	<b>\$ 39</b>

**ISSUES**

**FFTF Shutdown Delay until April 2, 2003:** Further activities to dismantle the FFTF are on hold until April 2003 due to pending litigation from Benton County against RL.

There are no current ART issues.